

# **DIABETES**

## **LITERATURE INDEX**

**NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES**

**U.S. DEPARTMENT OF  
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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical as-

pects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated conditions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

**Hierarchical Subject Index:** This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject

heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In Section 1, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In Section 2, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within

the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	
1.A	ISLANDS OF LANGERHANS	HYPERGLYCEMIA, DRUG THERAPY
1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	HYPERGLYCEMIA, ETIOLOGY
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	HYPERGLYCEMIA, METABOLISM
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	HYPERGLYCEMIA, URINE
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	
1.B	PANCREAS	GLYCOSURIA
1.B.1	PANCREAS, ANATOMY RELATED	GLYCOSURIA, CHEMICALLY INDUCED
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	GLYCOSURIA, COMPLICATIONS
1.B.3	PANCREAS, PHYSIOLOGY RELATED	GLYCOSURIA, DIAGNOSIS
1.B.4	PANCREAS, PHARMACOLOGY RELATED	GLYCOSURIA, DRUG THERAPY
1.B.5	PANCREAS, PATHOLOGY RELATED	GLYCOSURIA, ENZYMOLOGY
1.B.6	PANCREAS, SURGERY RELATED	GLYCOSURIA, ETIOLOGY
1.B.6.1	PANCREAS, TRANSPLANTATION	GLYCOSURIA, METABOLISM
1.B.6.2	PANCREATECTOMY	GLYCOSURIA, OCCURRENCE
1.C	INSULIN	GLYCOSURIA, RENAL
1.C.1	INSULIN, BIOCHEMISTRY RELATED	HYPONHYPERGLYCEMIA
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	HYPONHYPERGLYCEMIA, BLOOD
1.C.1.2	INSULIN, ANALYSIS	HYPONHYPERGLYCEMIA, CHEMICALLY INDUCED
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	HYPONHYPERGLYCEMIA, COMPLICATIONS
1.C.1.4	INSULIN, BIOSYNTHESIS	HYPONHYPERGLYCEMIA, DIAGNOSIS
1.C.1.5	INSULIN, METABOLISM	HYPONHYPERGLYCEMIA, DRUG THERAPY
1.C.1.6	INSULIN, BLOOD	HYPONHYPERGLYCEMIA, ETIOLOGY
1.C.1.7	INSULIN, URINE	HYPONHYPERGLYCEMIA, METABOLISM
1.C.2	INSULIN, PHYSIOLOGY RELATED	HYPONHYPERGLYCEMIA, PHYSIOPATHOLOGY
1.C.2.1	INSULIN, PHYSIOLOGY	HYPONHYPERGLYCEMIA, THERAPY
1.C.2.2	INSULIN, SECRETION	
1.C.3	INSULIN, PHARMACOLOGY RELATED	DIABETES
1.C.3.1	INSULIN, PHARMACODYNAMICS	ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
1.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	DIABETES MELLITUS
1.C.3.3	INSULIN, ADVERSE EFFECTS	DIABETES MELLITUS, JUVENILE
1.C.4	HYPERINSULINISM	DIABETES, BIOCHEMISTRY RELATED
1.C.4.1	INSULIN COMA	DIABETES, METABOLISM
1.C.5	INSULIN ANTIBODIES	DIABETES, ENZYMOLOGY
1.C.6	INSULIN RESISTANCE	DIABETES, BLOOD
1.C.7	INSULIN, THERAPY RELATED	DIABETES, URINE
1.C.7.1	INSULIN, DIAGNOSTIC USE	DIABETES, PHYSIOPATHOLOGY
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	DIABETES, IMMUNOLOGY
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	DIABETES, COMPLICATIONS AND PATHOLOGY
1.C.8	INSULIN, HISTORY	DIABETIC KETOACIDOSIS
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1.D.1	GLUCAGON, BIOCHEMISTRY RELATED	DIABETIC COMA
1.D.1.1	GLUCAGON, ANALYSIS	DIABETIC ANGIOPATHIES
1.D.1.2	GLUCAGON, METABOLISM	DIABETIC NEPHROPATHIES
1.D.1.3	GLUCAGON, BLOOD	DIABETIC NEUROPATHIES
1.D.2	GLUCAGON, PHYSIOLOGY RELATED	DIABETIC RETINOPATHY
1.D.2.1	GLUCAGON, PHYSIOLOGY	OTHER COMPLICATIONS OF DIABETES
1.D.2.2	GLUCAGON, SECRETION	DIABETES PATHOLOGY
1.D.3	GLUCAGON, PHARMACOLOGY RELATED	PREGNANCY IN DIABETES
1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
1.D.3.2	GLUCAGON, PHARMACODYNAMICS	DIABETES, OCCURRENCE
1.D.3.3	GLUCAGON, TOXICITY	DIABETES, ETIOLOGY
1.D.4	GLUCAGON, THERAPY RELATED	DIABETES, CONGENITAL
1.D.4.1	GLUCAGON, DIAGNOSTIC USE	DIABETES, FAMILIAL AND GENETIC
1.D.4.2	GLUCAGON, THERAPEUTIC USE	PREDIABETIC STATE
1.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	DIABETES, DIAGNOSIS RELATED
1.E.1	BLOOD SUGAR	GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)
1.E.1.1	BLOOD SUGAR, ANALYSIS	DIABETES, DIAGNOSIS
1.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	DIABETES, THERAPY RELATED
1.E.1.3	BLOOD SUGAR, METABOLISM	DIABETES, PREVENTION AND CONTROL
1.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	DIABETES, NUTRITION AND DIET THERAPY
1.E.2	GLUCOSE TOLERANCE TEST	OBESITY IN DIABETES
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1.E.3.1	HYPERGLYCEMIA, BLOOD	DIET
1.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	DIABETIC DIET
1.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	DIETARY CARBOHYDRATES
1.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	DIETARY FATS
		CYCLAMATES
		SACCHARIN
		DIABETES, INSULIN AND THERAPY

### Arrangement of the Hierarchical Index

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## MEDLARS Terms Included in Hierarchical Index

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**SYMPORIUM III: HORMONES AND HORMONE RECEPTORS. A MORPHOLOGICAL APPROACH TO SURFACE RECEPTORS IN ISLET AND LIVER CELLS.** Orci L, Rufener C, Malaisse-Lagae F, Blondel B, Amherdt M, Bataille D, Freychet P, Perrelet A *Isr J Med Sci 11: 639-55, Jul 75 (Eng)*

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## 1.C INSULIN

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[NADP- AND NAD-MALATE DEHYDROGENASE IN THE LIVER AND RENAL CORTEX AND HORMONAL REGULATION OF ITS ACTIVITY] Tsonecheva AV *Ekspl Med Morfol* 13: 89-95, 1974 (Bul)

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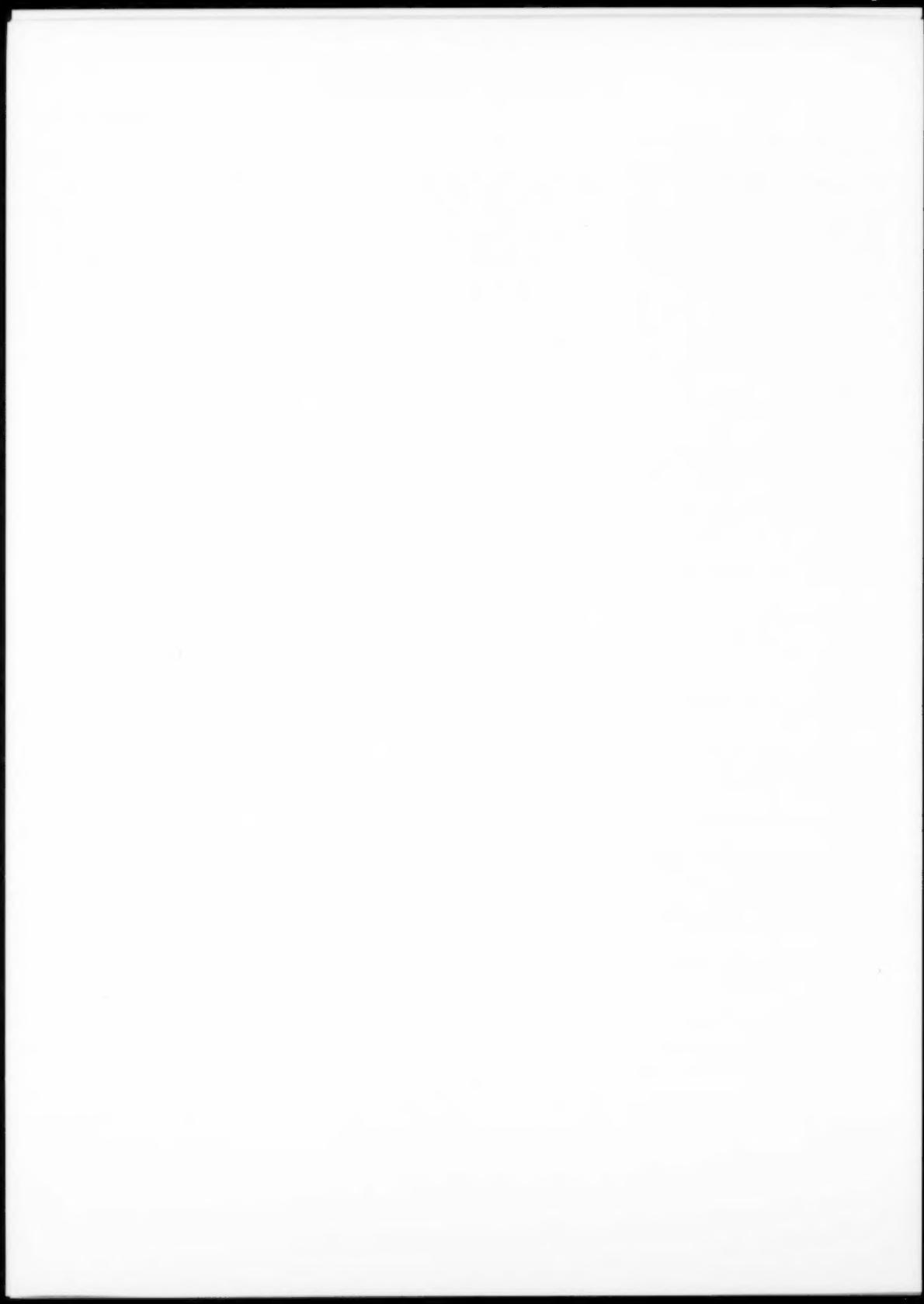
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### 2.G.3 CHROMAFFIN SYSTEM

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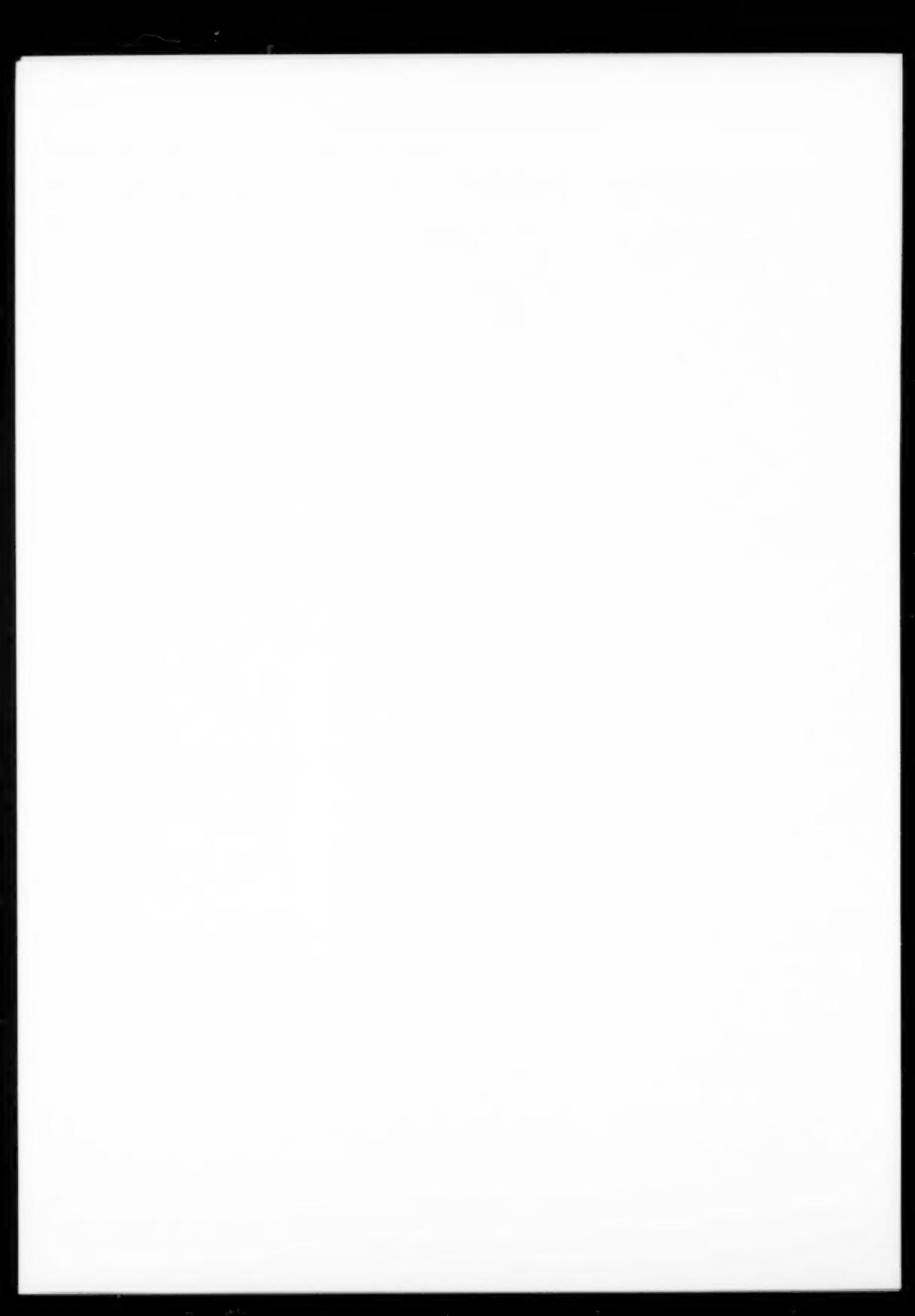
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USE OF MUTANT FIBROBLASTS IN THE ANALYSIS OF THE REGULATION OF CHOLESTEROL METABOLISM IN HUMAN CELLS. Brown MS, Brannan PG, Bohmfalk HA, Brunschede GY, Dana SE, Helgeson J, Goldstein JL *J Cell Physiol* 85: 425-36, Apr 75 (Eng) BLOOD PROTEINS; CELL LINE; CELLS, CULTURED; CHOLESTEROL (metabolism, pharmacodynamics, analogs & derivatives); CULTURE MEDIA; ENZYME REPRESSION; FIBROBLASTS (metabolism, enzymology); HETEROZYGOE; HOMOZYGOE; HUMAN; HYDROXYMETHYLGLUTARYL COA REDUCTASES (metabolism); HYPERCHOLESTEROLEMIA (familial & genetic, metabolism); IODINE RADIOISOTOPES;

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**BLOOD SUGAR** (analysis); CATECHOLAMINES (urine); CHILD; DIABETES MELLITUS, JUVENILE (blood, urine); FEMALE; GLYCOSURIA (etiology); HUMAN; HYDROCORTISONE (blood); HYPERGLYCEMIA (etiology); HYPOGLYCEMIA (complications); INSULIN RESISTANCE; INSULIN (metabolism); KETONES (urine); MALE; SOMATOTROPIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H..

**Bruni B**

[**PSYCHODIAGNOSIS OF JUVENILE DIABETES IN THE INITIAL PHASE**] Bruni B, Bruni Bocher K, Bossi L, Fenoglio I, Tonso F *Ann Osp Maria Vittoria Torino* 17: 49-100, Jan-Jun 74 (Ita)

**DIABETES MELLITUS, JUVENILE** (diagnosis); ENGLISH ABSTRACT; PROJECTIVE TECHNICS; PSYCHOLOGICAL TESTS; RORSCHACH TEST; ROSENZWEIG PICTURE-FRUSTRATION STUDY; WECHSLER SCALES.

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**Bugajski J**

**THE INFLUENCE OF SEROTONIN ON INSULIN-STIMULATED GASTRIC SECRETION, BLOOD GLUCOSE AND SERUM ELECTROLYTE LEVELS IN THE UNANESTHETIZED RAT.** Hano J, Bugajski J, Daniel L, Wantuch C *Arch Int Pharmacodyn Ther* 216: 28-39, Jul 75 (Eng)

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**PLACENTAL PRODUCTION AND FOETAL UTILISATION OF LACTATE AND PYRUVATE.** Burd LI, Jones MD Jr, Simmons MA, Makowski EL, Meschia G, Battaglia FC *Nature* 254: 710-1, 24 Apr 75 (Eng)

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ANIMAL; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (complications); DIABETIC NEPHROPATHIES (pathology, etiology); FEMALE; GLOMERULAR FILTRATION RATE; HUMAN; KIDNEY GLOMERULUS (ultrastructure); MALE; MICE; NEPHROSCLEROSIS (pathology).

### Cannon B

**THE FLUIDITY AND ORGANIZATION OF MITOCHONDRIAL MEMBRANE LIPIDS OF THE BROWN ADIPOSE TISSUE OF COLD-ADAPTED RATS AND HAMSTERS AS DETERMINED BY NITROXIDE SPIN PROBES.** Cannon B, Polnaszek CF, Butler KW, Eriksson LE, Smith IC. *Arch Biochem Biophys* 167: 505-18, Apr 75 (Eng)

ADAPTATION, PHYSIOLOGICAL; ANIMAL EXPERIMENTS; BROWN FAT (ultrastructure); COLD; ELECTRON SPIN RESONANCE; HAMSTERS; HEAT; HIBERNATION; LIPIDS (analysis); LIPOSOMES; MATHEMATICS; MEMBRANES (ultrastructure); MITOCHONDRIA (ultrastructure); PHOSPHOLIPIDS (analysis); RATS; SPECIES SPECIFICITY; SPIN LABELS.

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GLUCOSE TRANSPORT CARRIER IN HUMAN ERYTHROCYTE MEMBRANES. DINITROPHENYLATION OF A MEMBRANE COMPONENT MODIFIED BY D-GLUCOSE. Jung CY, Carlson LM *J Biol Chem* 250: 3217-20, 10 May 75 (Eng)

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GLUCAGON (metabolism, blood); GLUCOSE (pharmacodynamics); HUMAN; INFANT, NEWBORN; INSULIN (metabolism, blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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**Fletcher GL**

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EXPERIMENTS; ENGLISH ABSTRACT; ENZYME ACTIVATION; GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ISOENZYMES (isozyme & purification); KINETICS; PROTEIN KINASE (isolation & purification, metabolism); PROTEINS (analysis); THEOPHYLLINE (pharmacodynamics); TROUT.

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**MYOCARDIUM** (metabolism); **PROINSULIN** (metabolism); **RATS**; **RECEPTORS, HORMONE**; **STRUCTURE-ACTIVITY RELATIONSHIP**; **SWINE**.

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ACETOACETATES (metabolism); ACIDOSIS, DIABETIC (metabolism); BRAIN (metabolism); DIABETES MELLITUS (metabolism); HUMAN; HYDROXYBUTYRATES (metabolism); KETONE BODIES (metabolism, blood); KIDNEY (metabolism); LIVER (metabolism); MUSCLES (metabolism); OBESITY (metabolism); STARVATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

### Ozaki S

**[EFFECT OF LIPIDS ON LIVER MICROSMAL MEMBRANES. (1) STUDIES OF A RELATIONSHIP BETWEEN DELIPIDATION OF LIVER MICROSMOMES WITH THE VARIOUS ORGANIC SOLVENTS AND CYTOCHROME C REDUCTASE ACTIVITY LINKED TO REDUCED NICOTINAMIDE ADENINE DINUCLEOTIDE (AUTHORS TRANSL)]** Ozaki S *Hokkaido J Med Sci* 49: 326-36, Jul 74 (Jpn) ACETONE (pharmacodynamics); ALCOHOL, PROPYL (pharmacodynamics); ANIMAL EXPERIMENTS; CHICKENS; CHROMATOGRAPHY, GAS; CYTOCHROME C (metabolism); CYTOCHROME REDUCTASES (metabolism); ENGLISH ABSTRACT; FERRICYANIDES (metabolism); HORSES; IMMUNOASSAY; IN VITRO; LIPOS (metabolism); MEMBRANES (enzymology); MICROSMOMES, LIVER (ultrastructure); NAD (metabolism); NADP, SOLVENTS.

**[EFFECT OF LIPIDS ON LIVER MICROSMAL MEMBRANES. (2) STUDIES ON THE INTERACTION BETWEEN EXTRACYTOCHROME B<sub>5</sub> AND MICROSMOMAL MEMBRANES (AUTHORS TRANSL)]** Ozaki S *Hokkaido J Med Sci* 49: 337-46, Jul 74 (Jpn) ACETONE (pharmacodynamics); ANIMAL EXPERIMENTS; CYTOCHROMES (metabolism); ENGLISH ABSTRACT; IN VITRO; LIPOS (metabolism); MEMBRANES (enzymology); MICROSMOMES, LIVER (ultrastructure); PHOSPHOLIPIDS (metabolism); PROTEIN BINDING; SWINE; TRITONS (pharmacodynamics); TRYPSIN (pharmacodynamics).

**[EFFECT OF LIPIDS ON LIVER MICROSMAL MEMBRANES. (3) STUDIES ON THE EFFECT OF LIPID MICELLES ON THE RECONSTITUTED SYSTEMS OF NADH-CYTOCHROME C REDUCTASE (AUTHORS TRANSL)]** Ozaki S *Hokkaido J Med Sci* 49: 347-55, Jul 74 (Jpn)

ANIMAL EXPERIMENTS; CHROMATOGRAPHY; CYTOCHROME REDUCTASES (metabolism); CYTOCHROMES (metabolism); ENGLISH ABSTRACT; IN VITRO; LIPOS (metabolism); LYSOSOMES (metabolism); MEMBRANES (enzymology); MICROSMOMES, LIVER (ultrastructure); SWINE.

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**CONTROL OF PHOSPHORYLATIVE ACTIVITY IN HUMAN LIVER MITOCHONDRIA THROUGH CHANGES IN RESPIRATORY ENZYME CONTENTS.** Ozawa K, Honjo I *Clin Sci Mol Med* 48: 75-82, Feb 75 (Eng)

ANIMAL EXPERIMENTS; CHLORAMPHENICOL (pharmacodynamics); CYTOCHROMES (metabolism); GLUTAMATES (metabolism); HEPATOMA (metabolism); HUMAN; LIVER NEOPLASMS (metabolism); LIVER REGENERATION; MITOCHONDRIA, LIVER (metabolism, drug effects); OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION; RATS; SUCCINATES (metabolism).

### Ozawa Y

**[PROCEEDINGS: DEFICIENCIES OF GROWTH HORMONE, THYROID STIMULATING HORMONE AND GONAD STIMULATING HORMONE IN A BROTHER AND SISTER]** Shishiba Y, Shimizu T, Ozawa Y, Kawabata T *Folia Endocrinol Jpn* 50: 625, 20 Feb 74 (Jpn)

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**SPONTANEOUS REMISSION OF THE NEPHROTIC SYNDROME IN DIABETIC NEPHROPATHY.** Pabico RC, Panner B, McKenna BA, Freeman RB *Am J Med* 59: 434-43, Sep 75 (Eng)

ADULT; BIOPSY; CASE REPORT;

CHOLESTEROL (blood); DIABETIC

NEPHROPATHIES (pathology); FEMALE; HUMAN; KIDNEY FUNCTION TESTS; KIDNEY (pathology, ultrastructure); MICROSCOPY, ELECTRON; NEPHROTIC SYNDROME (pathology); REMISSION.

### Pacheco CR

**[CLINICAL STUDY OF A NEW SYNTHETIC STEROID IN THE TREATMENT OF BRONCHIAL ASTHMA]** Pacheco CR, Valdez-Ochoa S, Naranjo F, Alvarez H, Aguilar M, Saavedra M *Gac Med Mex* 104: 313-9, Oct 72 (Spa)

ADULT; AGED; ASTHMA (drug therapy); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); CLINICAL RESEARCH; COMPARATIVE STUDY; FEMALE; GLUCOCORTICOIDS, SYNTHETIC (pharmacodynamics, therapeutic use); HUMAN; MALE; MIDDLE AGE; POTASSIUM (urine); PRENDSIONE (therapeutic use); PREGNATRIENES (therapeutic use, pharmacodynamics); PYRAZOLES (therapeutic use, pharmacodynamics); SODIUM (urine); 17-HYDROXYCORTICOSTEROIDS (urine); 17-KETOSTEROIDS (urine).

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**TOXICITY ARISING FROM THE UREA CYCLE.** Cohen BD, Handelman DG, Pai BN *Kidney Int [Suppl]* 28-7, Feb 75 (Eng)

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**ARGININE-STIMULATED ACUTE PHASE OF INSULIN AND GLUCAGON SECRETION. I. IN NORMAL MAN.** Palmer JP, Walter RM, Ensink JW *Diabetes* 24: 735-40, Aug 75 (Eng)

ADOLESCENCE; ADULT; ARGinine (diagnostic use); BLOOD SUGAR (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCAGON (secretion); GLUCOSE (pharmacodynamics), HUMAN; HYPERGLYCEMIA (physiopathology); INJECTIONS, INTRAVENOUS; INSULIN (secretion); MALE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H..

**ACUTE-PHASE INSULIN SECRETION AND GLUCOSE TOLERANCE IN YOUNG AND AGED NORMAL MEN AND DIABETIC PATIENTS.** Palmer JP, Ensink JW *J Clin Endocrinol Metab* 41: 498-503, Sep 75 (Eng)

ADULT; AGED; AGING; BLOOD SUGAR (analysis); COMPARATIVE STUDY; DIABETES MELLITUS (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INSULIN (secretion); MALE; MIDDLE AGE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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**METABOLIC PROBLEMS IN DIABETIC PATIENTS UNDERGOING RENAL TRANSPLANTATION.** Palumbo PJ, Woods JE, Johnson WJ, Service FJ *Kidney Int [Suppl]* 58-62, Oct 74 (Eng)

ADULT; AGED; BLOOD PRESSURE; BLOOD SUGAR (metabolism); BODY WEIGHT; DIABETES MELLITUS, JUVENILE (complications); DIABETIC NEPHROPATHIES (surgery, metabolism, therapy); FEMALE; GLUCOSE (metabolism); GLYCOSURIA (etiology); HEMODIALYSIS (methods); HUMAN; INSULIN (therapeutic use); KIDNEY (transplantation); MALE; METHYLPREDNISOLONE (pharmacodynamics); MIDDLE AGE; TRANSPLANTATION, HOMOLOGOUS.

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ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; COMPARATIVE STUDY; DIETARY FATS (administration & dosage); DOGS; EATING; FASTING; FATTY ACIDS, NONESTERIFIED (blood); LIPIDS (blood); TIME FACTORS; TRIGLYCERIDES (metabolism).

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ADULT; AGE FACTORS; AGED; ANALYSIS OF VARIANCE; AORTA (anatomy & histology, pathology, analysis); ARTERIES (anatomy & histology, analysis, pathology); ATHEROSCLEROSIS (pathology); CHOLESTEROL (analysis); CORONARY VESSELS (anatomy & histology, pathology, analysis); ESTERS; FATTY STREAK.

ARTERIAL (pathology); HUMAN; LIPIDS (analysis); MIDDLE AGE; PHOSPHOLIPIDS (analysis); SEX FACTORS; TRIGLYCERIDES (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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**[STRUCTURE AND PROPERTIES OF HYPOPHYSAL HORMONES. II. PROTEIN HORMONES OF THE HYPOPHYSIS]** Pankov IuA *Probl Endokrinol (Mosk)* 20: 104-14, May-Jun 74 (Rus) [78]

AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS; BINDING SITES; CATTLE; COMPARATIVE STUDY; FSH (pharmacodynamics); GLYCOPROTEINS (pharmacodynamics); HUMAN; LH (pharmacodynamics); MOLECULAR CONFORMATION; OPTICAL ROTATORY DISPERSION; PEPTIDE FRAGMENTS (analysis); PEPTIDES (analysis); PITUITARY GLAND (secretion); PITUITARY HORMONES (pharmacodynamics, analysis); PROLACTIN (pharmacodynamics); PROTEIN CONFORMATION; PROTEINS (pharmacodynamics); RATS; REVIEW; SHEEP; SOMATOTROPIN (pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP; SWINE; THYROTROPIN (pharmacodynamics).

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**Panos J**

**[PROBLEM OF MYOCARDIAL INFARCT IN PATIENTS WITH DIABETES]** Panos J, Pejchal Vnitr Lek 21: 778-83, Aug 75 (Cze)

AGED; ANGINA PECTORIS (etiology); DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (etiology).

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**HISTOCHEMICAL OBSERVATIONS ON UPTAKE OF L-DOPA INTO ENDOCRINE CELLS OF THE RAT PITUITARY GLAND DURING THE POSTNATAL DEVELOPMENT.** Partanen S, Reichard L, Back N *Cell Tissue Res* 156: 451-61, 1975 (Eng)

AGE FACTORS; ANIMAL EXPERIMENTS; CORTICOTROPIN (metabolism); FEMALE; FLUORESCENCE, FORMALDEHYDE; HISTOCYTOCHEMISTRY; LEVODOPA (metabolism); PEPTIDES (metabolism); PITUITARY GLAND, ANTERIOR (metabolism, growth & development, cytology); RATS; SEROTONIN (metabolism); SOMATOTROPIN (metabolism); TRYPTOPHAN (metabolism).

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**Pav J**

**[POINT-SCORING SYSTEM FACILITATING EVALUATION OF THE ORAL GLUCOSE TOLERANCE TEST]** Pav J, Pelant J *Cas Lek Cesk* 114: 731-4, 13 Jun 75 (Cze)  
**DIABETES MELLITUS (diagnosis); ENGLISH ABSTRACT; EVALUATION STUDIES; GLUCOSE TOLERANCE TEST (methods); HUMAN.**  
**[RELATION BETWEEN GLUCOSE AND SODIUM ABSORPTION IN RENAL GLYCOSURIA (AUTHORS TRANSL)]** Pav J, Sperl M *Cas Lek Cesk* 114: 939-41, 25 Jul 75 (Cze)  
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STEROID HORMONE-RESPONSIVE, ISOLATED ENDOMETRIAL CELLS. Pietras RJ, Szego CM *Endocrinology* 96: 946-54, Apr 75 (Eng) ALDOSTERONE (pharmacodynamics); ANIMAL EXPERIMENTS; BLADDER (drug effects); CARBON DIOXIDE (metabolism); CASTRATION; DOSE-RESPONSE RELATIONSHIP, DRUG; ENDOMETRIUM (metabolism, cytology); ESTRADIOL (pharmacodynamics); FEMALE; GLUCOSE (metabolism); HYDROCORTISONE

(pharmacodynamics); OVARY (physiology); RATS; SODIUM (metabolism); STIMULATION, CHEMICAL; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; WATER-ELECTROLYTE BALANCE.

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EATING; FEMALE; HALF-LIFE; HUMAN;

IMMUNOASSAY; MALE; SLEEP;

SOMATOTROPIN (secretion, blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H..

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**ANDROSTENEDIONE; ENGLISH ABSTRACT; ESTRADIOL; ESTRONE; HUMAN; HYDROXYSTEROID DEHYDROGENASES (metabolism); ISOELECTRIC FOCUSING; MICROSOMES (enzymology); NAD; NADP; OXIDATION-REDUCTION; PHOSPHOLIPASE (pharmacodynamics); PLACENTA (enzymology); PROGESTERONE; SOLUBILITY; TEMPERATURE; TESTOSTERONE; TIME FACTORS.**

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(metabolism); **PROPYLTHIOURACIL** (pharmacodynamics); **PROTEIN KINASE** (metabolism); **RATS**; **THEOPHYLLINE** (pharmacodynamics); **THYROID GLAND** (physiology); **THYROID HORMONES** (pharmacodynamics); **TIME FACTORS**; **TRIIODOTHYRONINE** (pharmacodynamics); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**; **XANTHINES** (pharmacodynamics).

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### Washington VA

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Anonymous *Kidney Int [Suppl]* 21-6, Oct 74 (Eng)

ADULT; AGED; CHILD; DIABETES MELLITUS; JUVENILE (complications, mortality); DIABETIC NEPHROPATHIES (mortality, therapy); HEMODIALYSIS; HUMAN; KIDNEY FAILURE, CHRONIC (etiology, complications, mortality, therapy); KIDNEY (transplantation); MIDDLE AGE; PROTEINURIA (etiology); RETROSPECTIVE STUDIES; TISSUE DONORS; TRANSPLANTATION, HOMOLOGOUS.

### END-STAGE DIABETIC NEPHROPATHY. DISCUSSION: VASCULAR AND VISUAL COMPLICATIONS.

Anonymous *Kidney Int [Suppl]* 41-6, Oct 74 (Eng)

ANGINA PECTORIS (etiology); ANIMAL; BLINDNESS (etiology); CEREBROVASCULAR DISORDERS (etiology); COMPARATIVE STUDY; DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (mortality); DIABETIC NEPHROPATHIES (therapy); DIABETIC RETINOPATHY (etiology); DYSPNEA (etiology); HEART DISEASES (etiology); HEMODIALYSIS (adverse effects); HUMAN; HYPERTENSION (etiology); HYPOTENSION (etiology); KIDNEY GLOMERULUS (pathology); KIDNEY (transplantation); MIDDLE AGE; RATS; TIME FACTORS; TRANSPLANTATION, HOMOLOGOUS, UNITED STATES.

### END-STAGE DIABETIC NEPHROPATHY. DISCUSSION: METABOLIC COMPLICATIONS.

Anonymous *Kidney Int [Suppl]* 73-6, Oct 74 (Eng)

ADRENAL GLAND HYPOFUNCTION (diagnosis); ANIMAL; DIABETES MELLITUS (complications, metabolism); DIABETIC NEPHROPATHIES (surgery); DOGS; GLUCAGON (blood); GLUCOSE (metabolism); HUMAN; HYPERCALCEMIA (etiology); HYPERLIPEMIA (etiology); HYPERPARATHYROIDISM, SECONDARY (metabolism); INSULIN (therapeutic use, secretion); KIDNEY (transplantation); METABOLIC DISEASES (etiology); NEPHRECTOMY; NITROGEN (metabolism); RATS; TRANSPLANTATION, HOMOLOGOUS.

### END-STAGE DIABETIC NEPHROPATHY. DISCUSSION: NEUROLOGIC COMPLICATIONS.

Anonymous *Kidney Int [Suppl]* 95-9, Oct 74 (Eng)

BLADDER, NEUROGENIC (etiology); BLOOD PRESSURE; DIABETES MELLITUS (complications, physiopathology); DIABETIC NEPHROPATHIES (complications, therapy, physiopathology); DIABETIC NEUROPATHIES (complications, physiopathology); DIARRHEA (etiology); HEMODIALYSIS; HUMAN; IMPOTENCE (etiology); INTESTINAL DISEASES (complications); LIFE EXPECTANCY; MALE; MIDDLE AGE; PERIPHERAL NERVE DISEASES (etiology); PERITONEAL DIALYSIS; URINARY TRACT INFECTIONS (etiology).

### ORAL HYPOGLYCAEMICS IN DIABETES MELLITUS.

Anonymous *Lancet* 2: 489-91, Sep 75 (Eng)

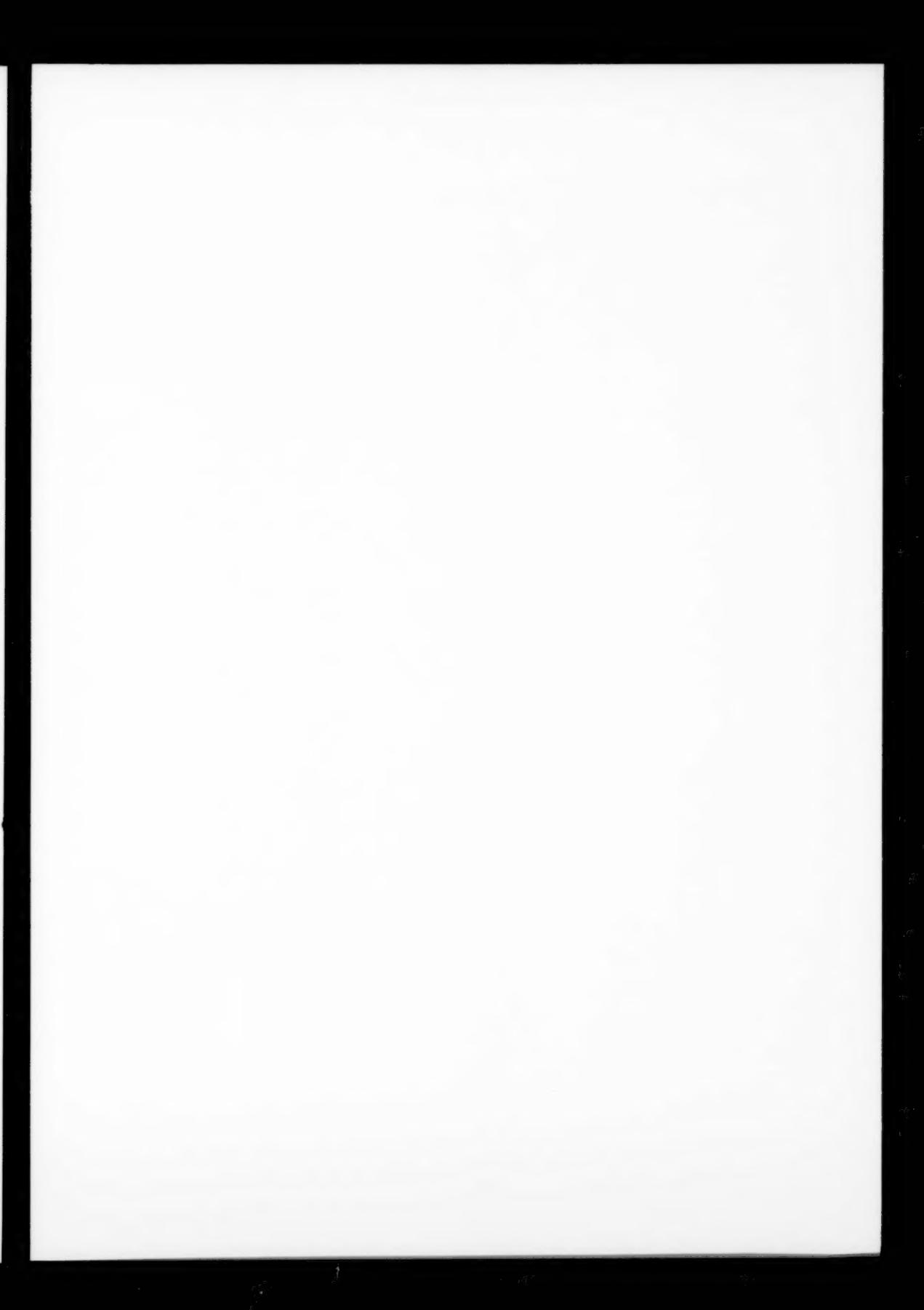
ADMINISTRATION, ORAL; CARDIOVASCULAR DISEASES (chemically induced); DIABETES MELLITUS (prevention & control); HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); MIDDLE AGE; PHENFORMIN (adverse effects, therapeutic use, administration & dosage); PLACEBO; TOLBUTAMIDE (adverse effects, therapeutic use, administration & dosage).

[RADIOCINEMATOGRAPHY] Anonymous *Minerva Cardioangiologica* 22: 391-2, May 74 (Ita)

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- STIMULATION OF GROWTH HORMONE SECRETION BY LEVODOPA-PROPRANOLOL IN CHILDREN AND ADOLESCENTS.** Anonymous *Pediatrics* 56: 262-6, Aug 75 (Eng).
- ADOLESCENCE; AGE DETERMINATION BY SKELETON; ARGinine (metabolism); BLOOD SUGAR (analysis); BODY HEIGHT; CHILD; CHILD, PRESCHOOL; DRUG THERAPY; COMBINATION; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (metabolism); LEVODOPA (pharmacodynamics); PROPRANOLOL (pharmacodynamics); SOMATOTROPIN (secretion, blood).**
- [TREATMENT OF SEVERE DIABETIC KETOACIDOSIS WITH CONTINUOUS INTRAVENOUS INFUSION OF LOW DOSES OF INSULIN.]** Anonymous *Tidsskr Nor Laegeforen* 95: 1415-6, 10 Sep 75 (Nor)
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- EDITORIAL: SAFETY OF SACCHARIN--THE PRESENT STATUS.** Anonymous *Ceylon Med J* 19: 129-30, Dec 74 (Eng)
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- BIOLOGICAL ACTIVITIES SOLUBILIZED CELL SURFACE COMPONENTS.** Anonymous *Adv Exp Med Biol* 51: 163-241, 1974 (Eng)
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- ANIMAL EXPERIMENTS; ARRHYTHMIA** (etiology, drug therapy); **CATECHOLAMINES** (metabolism); **DOGS; FATTY ACIDS, NONESTERIFIED** (metabolism, blood); **HUMAN; MYOCARDIAL INFARCT** (complications, blood, metabolism); **MYOCARDIUM** (metabolism); **NICOTINIC ACIDS** (analogs & derivatives, therapeutic use).
- LETTER: HIGH-DENSITY LIPOPROTEIN AND ATHEROSCLEROSIS.** Anonymous *Lancet* 1: 691, 22 Mar 75 (Eng)
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